

(No Model.)

E. M. LAMBERT & B. C. GUILER.
FISHING TOOL.

No. 551,211.

Patented Dec. 10, 1895.

Fig. 1.

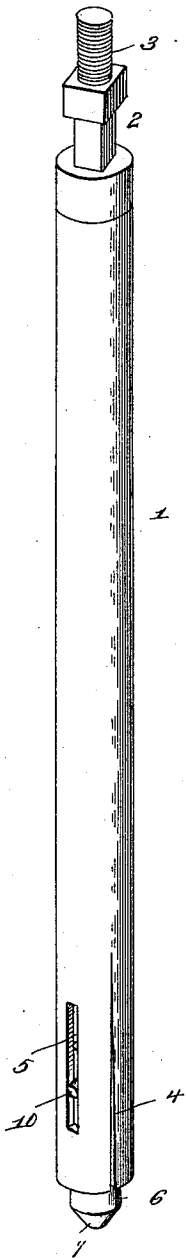


Fig. 2.

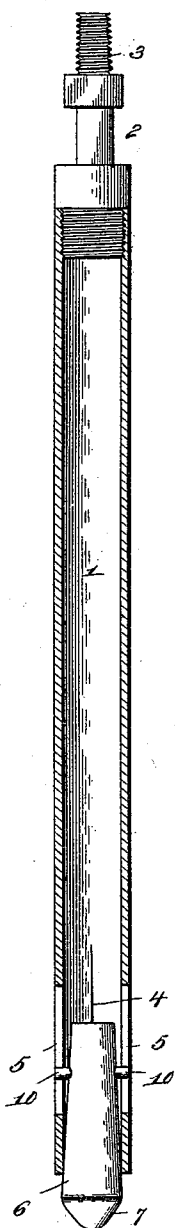


Fig. 3.

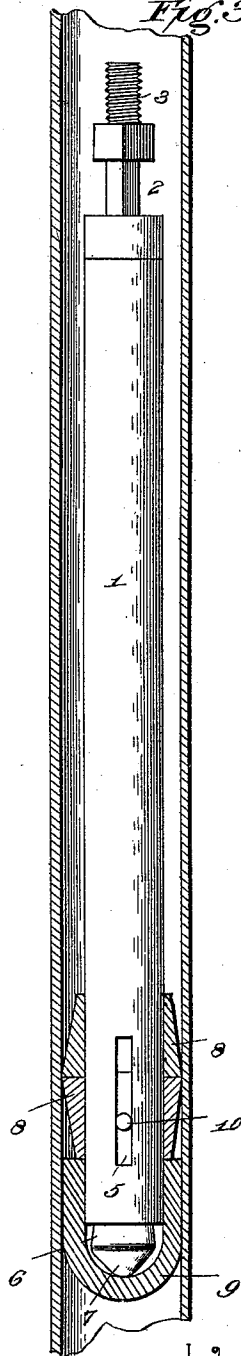


Fig. 4.



Inventors

Witnesses

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UNITED STATES PATENT OFFICE.

ELI M. LAMBERT AND BENJAMIN C. GUILER, OF MONTEZUMA, OHIO.

FISHING-TOOL.

SPECIFICATION forming part of Letters Patent No. 551,211, dated December 10, 1895.

Application filed March 20, 1895. Serial No. 542,535. (No model.)

To all whom it may concern:

Be it known that we, ELI M. LAMBERT and BENJAMIN C. GUILER, citizens of the United States, residing at Montezuma, in the county of Mercer and State of Ohio, have invented a new and useful Fishing-Tool, of which the following is a specification.

This invention relates to an improvement in fishing-tools for oil-wells, being designed especially for finding and recovering lost washers or valves that have become detached from the pump-rod.

The object of the present invention is to provide a simple and inexpensive device which is adapted to be lowered into the pump-stock or oil-well for the purpose of engaging and recovering lost washers and valves, which shall be automatic in its operation and save a great amount of time, labor, and annoyance incident to the recovery of the articles mentioned.

The invention consists in a fishing-tool comprising a tubular body split at its lower end and formed with one or more vertical slots, in combination with a tapering plug inserted in the end of a tubular body, one or more pins or stops carried by said plug and engaging the slotted end of the tubular body, and a threaded shank by means of which the device is attached to the supporting or fishing rod.

In the accompanying drawings, Figure 1 is a perspective view of my fishing-tool complete. Fig. 2 is a vertical section through the same. Fig. 3 is a vertical section through a well tube or barrel and several lost washers or valves, illustrating the manner in which my device operates for grasping the same. Fig. 4 is a detail perspective view of the tapering plug.

Similar numerals of reference indicate corresponding parts in the several figures of the drawings.

Referring to the drawings, 1 designates the body of my improved fishing-tool made from a section of steel tubing, and provided at its upper end with a polygonal head 2 secured thereto by screw-threading or brazing or in any preferred or convenient manner. 3 indicates a screw-threaded shank extending upwardly from the polygonal head 2, by means of which the fishing-tool is connected to the lower end of the supporting-rod, by which the

tool is lowered into the barrel or tube indicated at 3.

The tubular body 1 is provided with oppositely-disposed slits extending upwardly from the lower end thereof, as shown at 4, and is further provided near its lower end with one or more vertical slots 5 arranged intermediate the slits 4. Into the lower end of the tubular body 1 is fitted a tapering and sliding plug 6, which is rounded off at its extremity 7 for adapting the same to pass through the aperture in the lost valve or washers represented at 8 and 9, and provided near its upper end with laterally-projecting pins or stops 10 sliding vertically in the slots 5, whereby said tapering plug is guided in its vertical movements and prevented from escaping from the tubular body 1.

In operation, the fishing device is lowered into the well until it comes in contact with the displaced washers or valves, &c. The rounded or pointed lower end of the tapering plug serves to guide the lower end of the device through the central aperture of such washers and valves, and when the bottom of the plug strikes against the base of a valve 9, as indicated in Fig. 3, or against the bottom of the well, the tapering plug is forced upward relatively to the tubular body, thereby expanding the lower split end thereof and causing the same to firmly grasp the washers or valves, which are thus prevented from escaping from the tool and may now be lifted with the tool from the well. Heretofore it has required a great amount of time, labor, and patience to recover lost washers and valves, &c., sometimes requiring one or two days, whereas by means of my improved device the same may be recovered in a comparatively short space of time.

It will be apparent that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. A fishing tool for oil wells, comprising a tubular body provided at its lower advance end with oppositely disposed slots and also

- with opposing slits, in combination with a tapering conical plug having its contracted end disposed within and its expanded end projected beneath the lower split end of said tubular body so as to be capable of being thrust inward by impact with a fixed object, and one or more pins or stops on said tapering plug projecting into the slots in said body, substantially as specified.
- 10 2. A fishing tool for oil wells, comprising a tubular body cylindrical throughout and split at its advance end and formed adjacent thereto with one or more longitudinal slots, in combination with a tapering conical plug inserted
- 15 in the advance end of said tubular body and

having its expanded end projected beneath the advance end thereof and also having a conical end, and one or more pins or stops on said plug engaging the slots in said tubular body, substantially as and for the purpose 20 described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ELI M. LAMBERT.
BENJAMIN C. GUILER.

Witnesses:

ALVIN LACY,
ASA PRESTON.